

ABSTRACT OF THE DISCLOSURE

A digital-to-analog converter circuit for a subscriber line analog front end includes a differential amplifier, switch circuitry, and first and second current steering digital-to-analog converters (DAC), each DAC having a first and second output forming a differential DAC output. The switch circuitry couples the differential output of at most a selected one of the first and second DACs to a pair of switch nodes. When the differential output of the selected DAC is coupled to the pair of switch nodes, the differential output of the other DAC is shorted. A differential input of the differential amplifier is communicatively coupled to the pair of switch nodes. A differential output of the differential amplifier is coupled to drive a tip line and a ring line of a subscriber line. In various embodiments, the DACs, switch circuitry, and differential amplifier reside on the same semiconductor substrate.